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Inventor: THORGEIRSSON ET AL.
Docket No.: 11613.29USD1
Title: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS
PROTEIN PRODUCT

Attorney Name: KATHERINE M. KOWALCHYK Phone No.: 612.371.5311 Sheet 1 of 20

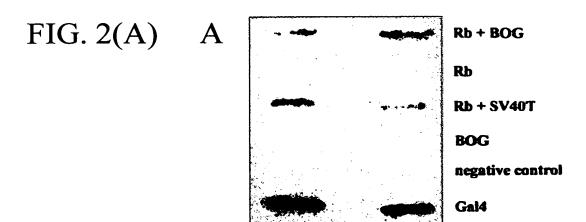
Brain 6un7 Kidney Liver Testies Spleen Heart

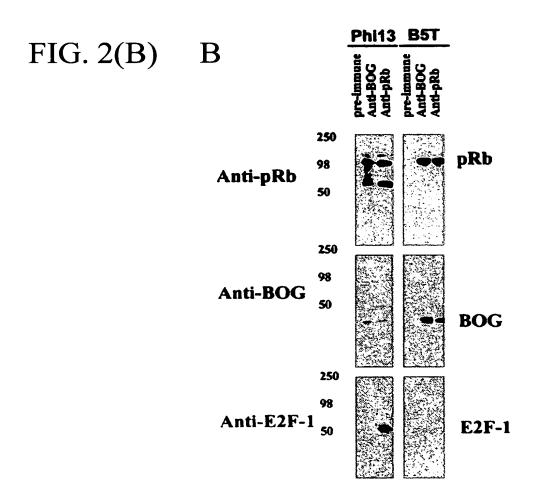
Inventor: THORGEIRSSON ET AL.

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Sheet 2 of 20

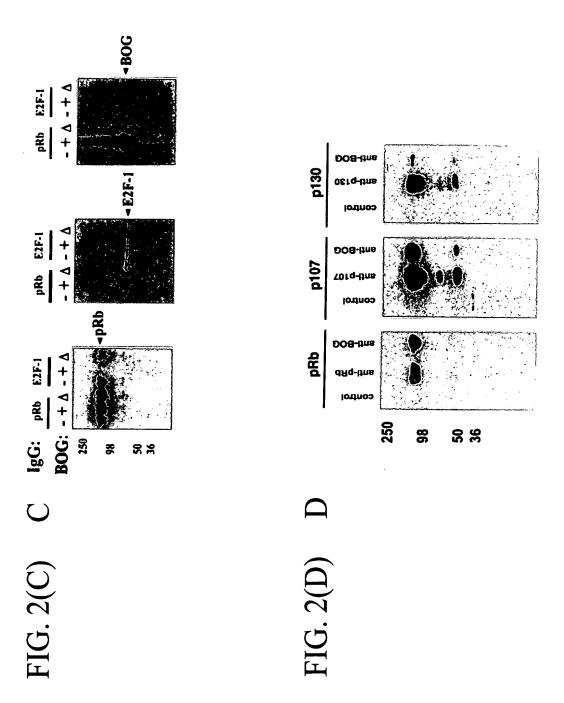




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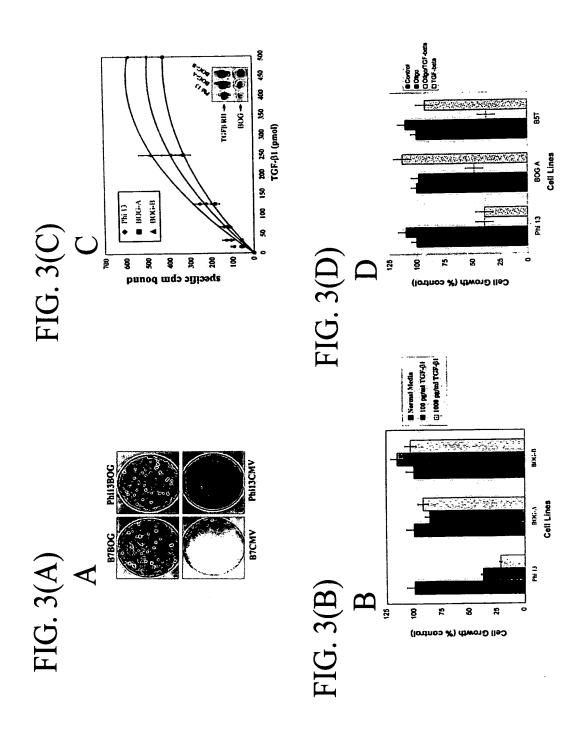
Attorney Name: KATHERINE M. KOWALCHYK Phone No.: 612.371.5311

Sheet 3 of 20



Inventor: THORGEIRSSON ET AL.
Docket No.: 11613.29USD1
Title: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS
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Phone No.: 612.371.5311

Sheet 4 of 20



Inventor: THORGEIRSSON ET AL. Docket No.: 11613.29USD1

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Attorney Name: KATHERINE M. KOWALCHYK

Phone No.: 612.371.5311

Sheet 5 of 20

FIG. 4(A) **A** 

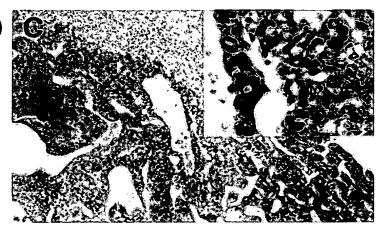
**Tumor Cell Line** 



FIG. 4(B) **B** 

**Tumors** 

FIG. 4(C)



Inventor: THORGEIRSSON ET AL.
Docket No.: 11613.29USD1
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PROTEIN PRODUCT
Attorney Name: KATHERINE M. KOWALCHYK
Phone No.: 612.371.5311
Sheet 6 of 20

BLAST SEARCH RESULTS

	Name	<b>Genbank number</b>	Probality P(N)
	Stratagene mouse melanoma cDNA clone 68379	AA126076 (mq83h10.r1)	1.5 e-160
2	Life Tech mouse embryo cDNA 10 6dpc clone 667151	AA111519 (me51h08.r1)	1.5 e-148
_	Soares mouse 3NbMS cDNA clone 622827	AA184284 (mt33b02.r1)	2.0 •-128
+	Stratagene mouse embryonic carcinomaRA cDNA cione 535882	AA105466 (mm82c06.r1)	1.0 e-120
2	WATMI Homosapiens cDNA clone 60115	NZ268 (EST601116)	1,4 e- 90

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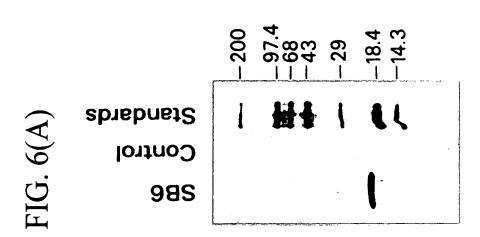
Docket No.: 11613.29USD1

Title: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN PRODUCT

Attorney Name: KATHERINE M. KOWALCHYK Phone No.: 612.371.5311

Sheet 7 of 20

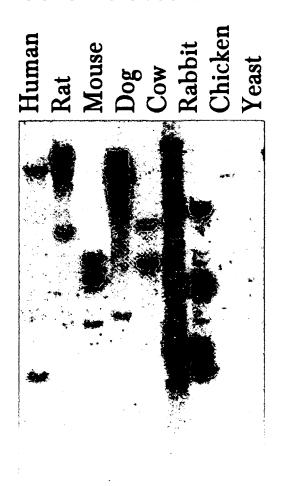
Heart Brain Spleen Bun Liver Skel. muscle Kidney **Testies** 



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Docket No.: 11613.29USD1
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PROTEIN PRODUCT
Attorney Name: KATHERINE M. KOWALCHYK
Phone No.: 612.371.5311
Sheet 8 of 20

# FIG. 7

## Genomic Southern Blot

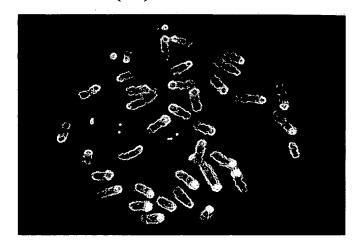


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PROTEIN PRODUCT
Attorney Name: KATHERINE M. KOWALCHYK
Phone No.: 612.371.5311
Sheet 9 of 20

FIG. 8(A)



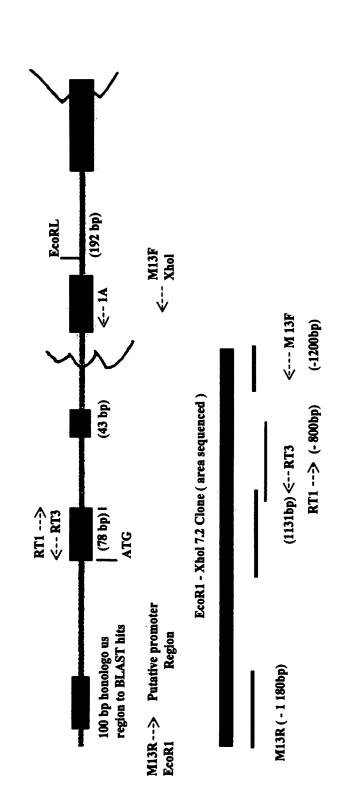
FIG. 8(B)



Inventor: THORGEIRSSON ET AL.
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PROTEIN PRODUCT

Attorney Name: KATHERINE M. KOWALCHYK Phone No.: 612.371.5311 Sheet 10 of 20

FIG. 8(C)



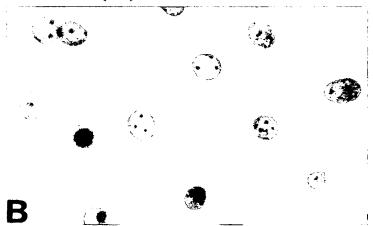
Inventor: THORGEIRSSON ET AL.
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PROTEIN PRODUCT
Attorney Name: KATHERINE M. KOWALCHYK
Phone No.: 612.371.5311
Sheet 11 of 20

# FIG. 9

FIG. 9(A)



FIG. 9(B)

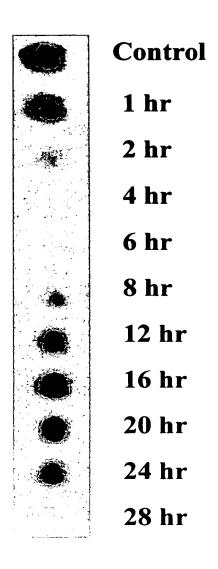


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PROTEIN PRODUCT
Attorney Name: KATHERINE M. KOWALCHYK
Phone No.: 612.371.5311
Sheet 12 of 20

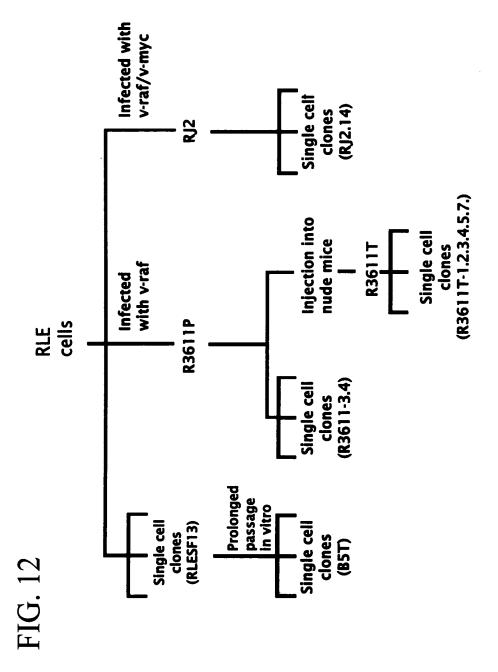
%2.0 6 13 81 οσοΝ 69 12 Noco ₽qd∀ ₽dqA 58 37 5 **4dA 4dA** mim 4 5 5 mim ٨٥٦ ٨٥٦ %2.0 FIG. 10(B) RLE

Inventor: THORGEIRSSON ET AL.
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Attorney Name: KATHERINE M. KOWALCHYK
Phone No.: 612.371.5311
Sheet 13 of 20

## FIG. 11



Inventor: THORGEIRSSON ET AL.
Docket No.: 11613.29USD1
Title: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN PRODUCT
Attorney Name: KATHERINE M. KOWALCHYK
Phone No.: 612.371.5311
Sheet 14 of 20



Inventor: THORGEIRSSON ET AL. Docket No.: 11613.29USD1 Title: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN PRODUCT Attorney Name: KATHERINE M. KOWALCHYK Phone No.: 612.371.5311

#### FIG. 13A

Sheet 15 of 20

```
Sequence
RLHEXRT-3
       00001
                  CAGAGCCCTGAAAGGTTGTTGCATGAGCCCGTGAAAGTGGAGTTTCAGTG
                                 <---- NF-W1
                                                  (16.00 2.0000)
                                 <---- NF-W2
                                                  (16.00 2.0000)
                                       <---- Zeste
                                                      (12.00 2.0000)
                                             Zeste
                                                      (12.00 2.0000)
                                            -----> BAF1 (10.00 0.8333)
       00051
                  GTAGTGGATAGCATAGGACACTGGAGACACAGTTCATGTCCAGCATTCAT
                   <---- C/EBP
                                    (13.00\ 1.6250)
                   <----- C/EBP
                                    (13.00\ 1.6250)
                   <----- C/EBP
                                    (13.00\ 1.6250)
                   (13.00 1.6250)
                      ----> NF-E
                                    (10.00 2.0000)
                                  -> GR
                                        (12.00 2.0000)
                                      ----> ADR1
                                                   (10.00 2.0000)
                                        <---- GR
                                                     (12.00 2.0000)
                                                         ----> CBF (2) (16.00 1.6000)
                                                         ----> SRF
                                                                           (16.00\ 1.6000)
                                                          <---- Pit-la
                                                                            (14.00 2.0000)
       00101
                  GGAGTGGGAGCAGAGGTTCCCTGAAGCTCACTGGCTAGTATTCTTGCTA
                          <---- GR
                                     (10.00 2.0000)
                                                          ----> AGP/EBP
                                                                              (10.00 1.1111)
                                                          ----> C/EBP
                                                                             (11.00 1.2222)
                                                          ----> <u>C/EB</u>P
                                                                             (11.00 1.2222)
                                                          ----> C/EBP
                                                                             (11.00 1.2222)
                                                          ----> <u>C/EBP</u>
                                                                             (11.00 1.2222)
                                                          ----> C/EBP
                                                                             (11.00 1.2222)
                                                          ----> <u>LA</u>P
                                                                           (10.00 1.1111)
                                                          ----> NF-IL6
                                                                              (10.00 1.1111)
```

-----> NF-IL6beta

<---- CP2

----> <u>CPI</u>A

(10.00 1.1111)

 $(10.00\ 0.9091)$ 

(14.00 2.0000)

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Attorney Name: KATHERINE M. KOWALCHYK
Phone No.: 612.371.5311
Sheet 16 of 20

#### **FIG. 13B**

```
CPIB
                                                                       (14.00 2.0000)
                                                               ACF
                                                                       (14.00 2.0000)
00151
          AACCAATGAGCTCCAAATTCACAGATCTTGTCGCAAAACCCAAATGTAAT
           ----> C/EBP
                             (10.00 2.0000)
           ----> CBF (1)
                               (10.00 2.0000)
           ----> CBF (2)
                               (10.00 2.0000)
           ----> CBF-A
                              (10.00 2.0000)
           ----> CBF-B
                              (10.00 2.0000)
           ----> CCAAT-binding factor
                                           (10.00 2.0000)
           ----> CDF
                            (10.00 2.0000)
           ----> CRF
                            (10.00 2.0000)
           ----> CTF
                            (10.00 2.0000)
           ----> NF-Y
                             (10.00 2.0000)
           -----> NF-Y'
                              (10.00 2.0000)
           <---- alpha-CBF
                                 (10.00 2.0000)
           <----- alpha-CP1
                                 (10.00\ 2.0000)
           <----- alpha-CP2a, alpha-CP2b
                                              (10.00 2.0000)
           <---- alpha-IRP
                                 (10.00 2.0000)
           <---- CDP
                            (10.00 2.0000)
           <---- CDP2
                             (10.00 2.0000)
           <---- Clox
                             (10.00 2.0000)
           <---- CP1
                            (10.00 2.0000)
           <---- <u>CP1</u>
                            (10.00\ 2.0000)
           <----- CP2
                            (10.00 2.0000)
           <---- Cux
                            (10.00 2.0000)
           <---- En
                           (16.00 \ 1.6000)
           <----- H1TF2
                              (10.00 2.0000)
           <---- NF-1
                             (10.00 2.0000)
           <---- NF-E
                             (10.00 2.0000)
           <----- NF-E
                             (10.00 2.0000)
           <----- SRF
                            (10.00 2.0000)
           <---- TGGCA-binding protein
                                             (10.00 2.0000)
                          -----> HiNF-A
                                            (12.00 1.0000)
                                                         (10.00 \ 0.9091)
                                                      --> IUF-1
                                                                  (10.00 \ 1.6667)
                                                         -----> HiNF-A
                                                                          (12.00\ 1.0000)
                                                       <---- AGP/EBP
                                                                           (10.00 1.1111)
                                                       <----- AP 3 (2)
                                                                            (13.00\ 1.6250)
                                                       <----- IgPE-1
                                                                          (16.00 2.0000)
                                                       <---- LAP
                                                                       (10.00 1.1111)
                                                       <---- NF-IL6
                                                                          (10.00 1.1111)
                                                       <---- NF-IL6beta
                                                                              (10.00 1.1111)
 00201
           GTGGAAATGAAGGAAAAGAAGACACCCAACACTGACTGAATATGGTGACA
           <----- HSF
                                 (14.00 \ 0.9333)
           <----- HSF
                                 (14.00 \ 0.9333)
           <----- HSF
                                 (14.00\ 0.9333)
            <----- HSF1
                               (long)
                                        (14.00 \ 0.9333)
            <----- HSF1 (short)
                                         (14.00\ 0.9333)
```

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Docket No.: 11613.29USD1
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Phone No.: 612.371.5311

#### FIG. 13C

Sheet 17 of 20

```
<----- HSF1 (14.00 0.9333)
                               (12.00 2.0000)
                ----> c-Ets-2
                 <---- c-Ets-1 54 (11.00 1.8333)
                 <---- c-Ets-1 68 (11.00 1.8333)
                 <---- c-Ets-2 58-64 (11.00 1.8333)
                 <---- PEA3
                               (11.00 1.8333)
                 <---- PEA3
                               (11.00 1.8333)
                 <---- PEA3
                              (11.00 1.8333)
                       ----> GR (12.00 2.0000)
                             <---- CACCC-binding factor
                                                        (10.00\ 2.0000)
                            <---- gammaCAC1 (10.00 2.0000)
                            <---- gammaCAC2
                                            (10.00 2.0000)
                                     -----> AP-1
                                                  (16.00 2.0000)
                                      ----> GCN4
                                                   (12.00 2.0000)
                                         ----> delta factor
                                                                 (12.00\ 1.0909)
                                       -----> <u>YY1</u> (12.00 1.0909)
                                            <---- myc-CF1 (10.00 1.6667)
                                                    ----> p300
                                                                 (14.00 2.0000)
00251
          ----> NF-1/L
                               (10.00 2.0000)
                        ----> GCN4 (12.00 2.0000)
                        <---- Zeste
                                     (12.00 2.0000)
                        <---- Zeste
                                     (12.00 2.0000)
                             ----> ADR1 (10.00 2.0000)
                                       ----> LVc
                                                   (10.00\ 2.0000)
                                                      ----> Zeste
                                                                   (10.00 2.0000)
                                                      ----> <del>Zeste</del>
                                                                    (10.00 2.0000)
00301
          TGAGTTCTAGGCCAGTCTGGTTTACATAGACAGCTCCAGGCCAGTAAGGG
          <---- GR
                      (12.00 2.0000)
                        ----> NF-IL-2A
                                             (16.00\ 1.6000)
                           -----> <u>Oct-1</u> (16.00 1.6000)
                            ----> Oct-2.1
                                          (16.00 1.6000)
                                            (20.00 1.6667)
                                  ----> NF-E
                                               (10.00 2.0000)
                                                   \leftarrow T-Ag (10.00 2.0000)
                                                      ----> E4BP4 (12.00 1.2000)
00351
          GCTAGCTAATGAAACTGTCTTAAACAAATTAACCAACGTTCATTTGAAAA
             ----> IUF-1 (10.00 1.6667)
                <---- STE12 (16.00 2.0000)
                                (10.00 2.0000)
                             <----- Ftz
                                              (18.00 1.6364)
                              -----> HOXA5
                                             (10.00\ 1.0000)
                                    ----> c-Ets-2 (12.00 2.0000)
                                          <----- EcR (11.00 1.0000)
                                               ----> TEIID
                                                           (12.00 2.0000)
                                                     ----> Hb
                                                                 (20.00 2.0000)
00401
          AAAATAAACCTTCCTTAAAGAAGTATTGGTACAACTAATAAAAAGATAAC
                ----> AGP/EBP
                                  (10.00 1.1111)
```

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Attorney Name: KATHERINE M. KOWALCHYK

Phone No.: 612.371.5311 Sheet 18 of 20

#### FIG. 13D

```
(11.00 1.8333)
-----> c-Ets-1 54
-----> c-Ets-1 68
                         (11.00 1.8333)
----> c-Ets-2 58-64
                            (11.00 1.8333)
----> LĀP
                  (10.00 1.1111)
----> NF-IL6
                     (10.00 1.1111)
----> NF-IL6beta
                         (10.00 1.1111)
                   (11.00 1.8333)
-----> PEA3
----> PEA3
                   (11.00 1.8333)
----> PEA3
                   (11.00 1.8333)
<---- kappay factor
                            (16.00 \ 2.0000)
 <---- c-Ets-2
                    (12.00\ 2.0000)
                  --> alpha-CBF
                                    (10.00 2.0000)
                ----> alpha-CP1
                                    (10.00 2.0000)
                ----> alpha-CP2A,
                                  alpha-CP2b
                                                 (10.00 2.0000)
                ----> alpha-IRP
                                   (10.00\ 2.0000)
                ----> CDP
                             (10.00 2.0000)
                ----> CDP2
                              (10.00 2.0000)
                ----> Clox
                              (10.00 2.0000)
                ----> CP1
                             (10.00 2.0000)
                  --> <u>CP1</u>
                             (10.00\ 2.0000)
                ----> CP2
                             (10.00 2.0000)
                ----> Cux
                             (10.00 2.0000)
                ----> H1TF2
                               (10.00 2.0000)
                ----> NF-1
                              (10.00 2.0000)
                ----> NF-E
                              (10.00\ 2.0000)
                ----> NF-E
                              (10.00 2.0000)
                ----> SRF
                              (10.00 2.0000)
                ----> TGGCA-binding protein
                                                (10.00 2.0000)
                <---- C/EBP
                               (10.00 2.0000)
                <---- CBF (1)
                                  (10.00 2.0000)
                <---- CBF (2)
                                  (10.00 2.0000)
                <---- CBF-A
                               (10.00\ 2.0000)
                <---- CBF-B
                               (10.00 2.0000)
                   -- CCAAT-binding factor
                                               (10.00 2.0000)
                <---- CDF
                             (10.00 2.0000)
                <---- CRF
                              (10.00 2.0000)
                <---- CTF
                             (10.00 2.0000)
                <---- NF-Y
                              (10.00 2.0000)
                <---- NF-Y'
                               (10.00 2.0000)
                              ----> HOXA5
                                              (10.00\ 1.0000)
                               ----> Hb
                                                 (16.00 \ 1.6000)
                                    ----> GATA-1
                                                      (12.00 2.0000)
                                    <---- GATA-1
                                                      (10.00 \ 1.6667)
                                    <---- GATA-1
                                                      (10.00 \ 1.6667)
                                    <---- GATA-1
                                                      (10.00 \ 1.6667)
                                    <---- GATA-2
                                                      (10.00 1.6667)
                                    <---- GATA-2
                                                      (10.00 \ 1.6667)
                                    <---- GATA-2
                                                      (10.00 \ 1.6667)
```

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Attorney Name: KATHERINE M. KOWALCHYK

----> Zeste

Phone No.: 612.371.5311

Sheet 19 of 20

#### FIG. 13E

```
<---- GATA-2
                                                                (12.00\ 2.0000)
                                              <---- GATA-3
                                                                (10.00 1.6667)
                                              <---- GATA-3
                                                                (10.00 \ 1.6667)
                                              <---- GATA-3
                                                                (10.00 \ 1.6667)
                                              <---- GATA-3
                                                                (10.00 \ 1.6667)
                                              <---- GATA-3
                                                                (10.00 1.6667)
                                              <---- NF-E1b
                                                                (10.00 \ 1.6667)
                                              <---- NF-E1c
                                                                (10.00\ 1.6667)
                                                               (10.00 2.0000)
                                                ----> DBF-A
                                               <---- GAL4
                                                              (10.00 2.0000)
                                                <---- TBP
                                                             (10.00 2.0000)
00451
           ACATTATGAGCACGCTGTTGCCAGCACATAAGGGATGTGGAGTATGAGAA
                                            (10.00 2.0000)
                            ----> NF-1/L
                                           ----> GCR1
                                                         (10.00 2.0000)
                                                  ----> C/EBP
                                                                    (14.00 \ 1.7500)
                                                 ----> C/EBP
                                                                    (14.00 1.7500)
                                                  ----> C/EBP
                                                                    (14.00 \ 1.7500)
                                                  ----> C/EBP
                                                                    (14.00 1.7500)
                                                  -----> C/EBP
                                                                    (14.00\ 1.7500)
00501
           GCGTGGAAAAGGGGTAAATCAAAGATAATTAATATTTGATGGTAATTCAC
            <---- AGP/EBP
                               (13.00\ 1.8571)
                 ------> Hinf-A
                                        (12.00 1.0000)
                  <---- Kr
                                   (16.00 1.6000)
                        <---- Pit-la
                                         (10.00 2.0000)
                                ----> GATA-1
                                                  (12.00\ 2.0000)
                                <---- GATA-1
                                                  (10.00 \ 1.6667)
                                <---- GATA-1
                                                  (10.00 \ 1.6667)
                                <---- GATA-1
                                                  (10.00 \ 1.6667)
                                <---- GATA-2
                                                  (12.00\ 2.0000)
                                 <---- GATA-3
                                                  (10.00 1.6667)
                                 <---- GATA-3
                                                  (10.00 1.6667)
                                 <---- GATA-3
                                                  (10.00 \ 1.6667)
                                 <---- GATA-3
                                                  (10.00 \ 1.6667)
                                 <---- GATA-3
                                                  (10.00 \ 1.6667)
                                 <---- NF-E1b
                                                  (10.00\ 1.6667)
                                 <---- NF-E1c
                                                  (10.00 1.6667)
                                  ----> DBF-A
                                                      (10.00 2.0000)
                                  ----> HOXA5
                                                       (10.00 \ 1.0000)
                                  <---- GAL4
                                                     (10.00 2.0000)
                                  <---- TBP
                                                     (10.00 2.0000)
                                     <---- N-Oct-3
                                                         (12.00 1.7143)
                                     <---- N-Oct-3
                                                         (12.00\ 1.7143)
                                     <---- N-Oct-3
                                                         (12.00\ 1.7143)
00551
            AGGTTTGAGTTTAGCTGCCTGTGCTTTAGCCAGAAAATGCGTAGGCCTGC
```

(10.00 2.0000)

Inventor: THORGEIRSSON ET AL.

Docket No.: 11613.29USD1
Title: cDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS

PROTEIN PRODUCT

Attorney Name: KATHERINE M. KOWALCHYK

Phone No.: 612.371.5311 Sheet 20 of 20

#### FIG. 13F

```
(10.00 2.0000)
              ----> Zeste
                              <----- CP2
                                                 (11.00\ 1.0000)
                                                    ----> Kerl
                                                                      (16.00\ 1.6000)
                                                     <---- LVc
                                                                  (10.00 2.0000)
00601
           AGGTATCCAAGAACTACAATTCCCAGAAGTCCGCAGTGCAGGCTCTGGGC
                              (12.00 2.0000)
                  ----> GR
                            ----> AGP/EBP
                                                (13.00\ 1.8571)
                            -----> <u>IL-6 RE</u>-BP
                                                (18.00 2.0000)
                            -----> IL-6 RE-BP
                                                   (18.00\ 2.0000)
                                          <---- Sp1
                                                          (16.00 1.6000)
                                           ----> Sp1
                                                        (10.00 2.0000)
                                             ----> LVc
                                                         (10.00 2.0000)
                                             ----> GAL4
                                                          (10.00 2.0000)
                                                ----> GR
                                                           (10.00 2.0000)
                                                   <--- T-Ag
                                                                (10.00 2.0000)
                                                    -----> GCF
                                                                  (10.00\ 1.4286)
                                                     <---- E1k-1
                                                                        (10.00 1.0000)
                                                      <---- c-Ets-1
                                                                           (16.00\ 1.6000)
                                                       <---- c-Ets-1 54
                                                                             (12.00 1.5000)
                                                       <---- c-Ets-1 68
                                                                             (12.00 \ 1.5000)
                                                       <---- c-Ets-1
                                                                          (12.00\ 1.5000)
                                                       <---- PEA3
                                                                       (12.00 \ 1.5000)
                                                       <---- PEA3
                                                                       (12.00 1.5000)
                                                       <---- PEA3
                                                                       (12.00 \ 1.5000)
                                                        -----> Bcd
                                                                         (16.00 \ 1.6000)
                                                        <----- Ela-F
                                                                           (14.00 2.0000)
00651
           CGGATGTAGTCTTGGTCTGAGAGCTGCTGGTCCAAGCTGGGCAAGGTCTC
          ----> GCR1
                        (10.00 2.0000)
             <---- EFII
                                (18.00 1.6364)
                                    <---- H4TF-2
                                                    (10.00 2.0000)
                                         <---- GCF
                                                           (10.00 1.0000)
                                             <---- T-Ag
                                                           (10.00 2.0000)
                                              <---- LF-A1
                                                           (10.00 2.0000)
                                                 <---- ELP
                                                              (14.00\ 2.0000)
                                                      <---- ADR1
                                                                   (10.00 2.0000)
00701
           CCACGTCTACATTC
```